



NOTES:
1. ALL DIMENSIONS ARE IN FEET.
2. THE ROOF SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:
DEAD LOAD = 20 PSF
LIVE LOAD = 40 PSF
WIND LOAD = AS PER CODE

- LEGEND:
- [Symbol] FIRE ALARM CONTROL PANEL
 - [Symbol] DIGITAL WINDMETER
 - [Symbol] REMOTE SIGNAL CONTROL PANEL
 - [Symbol] FIRE ALARM TERMINAL CABINET
 - [Symbol] EXHAUSTOR SMOKE SENSOR
 - [Symbol] SMOKE DETECTOR
 - [Symbol] DUST DETECTOR
 - [Symbol] LONG CRYSTAL DISPLAY ALARM/NOTIFICATION
 - [Symbol] ADDRESSABLE CONTROL MODULE
 - [Symbol] ADDRESSABLE MONITOR MODULE
 - [Symbol] MANUAL CALL STATION
 - [Symbol] ALARM BELL, 1/2" - CHIMBELA BELL
 - [Symbol] ALARM BELL/STROBE, 1/2" - CHIMBELA BELL
 - [Symbol] ELECTROMAGNETIC DOOR HOLDER, 120 VAC
 - [Symbol] TRIPPER SWITCH (BY OTHERS)
 - [Symbol] WIRELESS SWITCH (BY OTHERS)
 - [Symbol] SPRINKLER RISER (CONTING)
 - [Symbol] JUNCTION BOX (BY OTHERS)
 - [Symbol] RECESSED/PROTRUDING
 - [Symbol] PWA-1 ADDRESS RELAY

VOLUME DROP CALCULATIONS - (ROOF CASE)
RSPS PANEL CIRCUIT #2
1 BRANCH - 0.028 AMPS DROP PER 100 FEET WIRE
1 BRANCH - 0.027 AMPS DROP PER 15 CHIMBELA BELL/STROBE
VOLUME DROP = CURRENT X RESISTANCE
#14 GAUGE WIRE = 0.028 OHMS PER 100 FEET OF WIRE
8 FEET OF WIRE TO BRANCH 1
0.120 AMPS X 2160 OHMS = 259.2 VDC DROP
200 FEET OF WIRE FROM BRANCH 1 TO 2
0.027 AMPS X 400 OHMS = 10.8 VDC DROP
0.028 VDC DROP (TOTAL)
BASE 100
259.2 V - 10.8 V = 248.4 VDC VOLUME DROP

1 ROOF PLAN
SCALE: 1/8" = 1'-0"



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